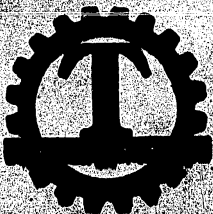


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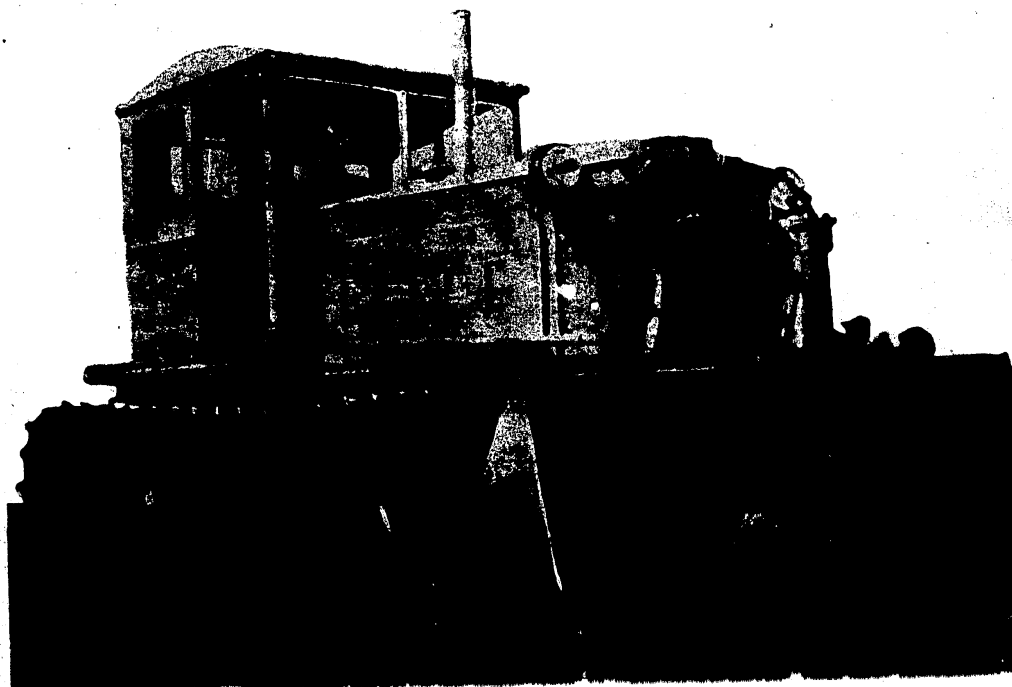
STAT

# BULLDOZERS



VSESOJUZNOJE OBJEDINENIE  
**TECHNOPROMIMPORT**  
MOSCOW USSR

# BULLD



## D-159B

### SPECIFICATION

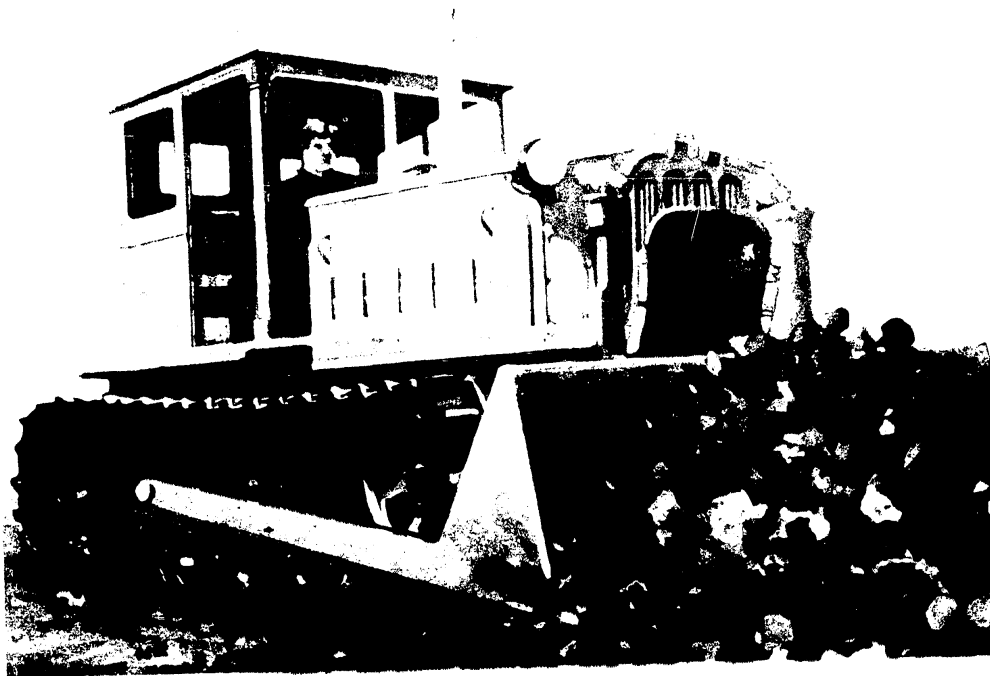
Length of blade (width of working)	2280 mm	Pump delivery	...	200 litres/min	Overall dimensions with tractor :
Height of blade	800 mm	Oil pressure in system	...	30 atm.	length 4300 mm; width 2280mm; height 2300 mm
Cutting angle	60°	Distributor	...	slide valve type	Weight of Bulldozer without tractor and hydraulic gear
Maximum penetration depth of blade	150 mm	Hydraulic lifting gears (cylinders)	...	2	650 kg
Maximum lift of blade	600 mm	Bore of hydraulic cylinders	...	101 mm	Weight of Bulldozer with hydraulic gear
Velocity of raising or lowering the blade	0.2 m/sec.	Stroke	...	470 mm	850 kg
Pump speed	925 RPM	Filling capacity of oil system	...	40 litres	Average capacity per shift when moving earth to a distance of 50 m. ... up to 225 cu.m.
		Oil for hydraulic gears - Transformer or spindle oil			

The D-159B and D-271 Bulldozers are used to move earth gravel road-metal and other bulk materials in short distances when site grading with slight soil cutting, spreading earth supplied by other machines, filling trenches, pits, ditches, when removing debris from building sites, road building etc.

The D-159B Bulldozer is mounted on a DT-54 caterpillar tractor. Raising and lowering the blade on the D-159B Bulldozer is accomplished by means of a universal hydraulic gear operated by the tractor driver. The hydraulic pump is mounted on the tractor rear axle and is driven from the power take-off shaft.

The D-271 Bulldozer is of the hanging type and is mounted on a C-80 caterpillar

# BULLD



## D-159B

### SPECIFICATION

Length of blade (width of working)	2280 mm	Pump delivery	... 220 litre min	<b>Overall dimensions with tractor :</b> length 4300 mm; width 2280mm; height 2300 mm	
Height of blade	800 mm	Oil pressure in system	... 3 atm.		
Cutting angle	60°	Distributor	... slide valve	Weight of Bulldozer without tractor and hydraulic gear	650 kg
Maximum penetration depth of blade	150 mm	Hydraulic lifting gears (cylinders)	...	Weight of Bulldozer with hydraulic gear	850 kg
Maximum lift of blade	600 mm	Bore of hydraulic cylinders	... 10 mm	<b>Average capacity per shift</b> when moving earth	
Velocity of raising or lowering the blade	0.2 m sec.	Stroke	... 47 mm	to a distance of 50 m. ... up to 225 cu.m.	
Pump speed	925 RPM	Filling capacity of oil system	... 40 litres		
		Oil for hydraulic gears - Transformer or spindle oil	...		

The D-159B and D-271 Bulldozers are used to move earth gravel road-metal and other bulk materials in short distances when site grading with slight soil cutting, spreading earth supplied by other machines, filling trenches, pits, ditches, when removing debris from building sites, road building etc.

The D-159B Bulldozer is mounted on a DT-54 caterpillar tractor. Raising and lowering the blade on the D-159B Bulldozer is accomplished by means of a universal hydraulic gear operated by the tractor driver. The hydraulic pump is mounted on the tractor rear axle and is driven from the power take-off shaft.

The D-271 Bulldozer is of the hanging type and is mounted on a C-80 caterpillar

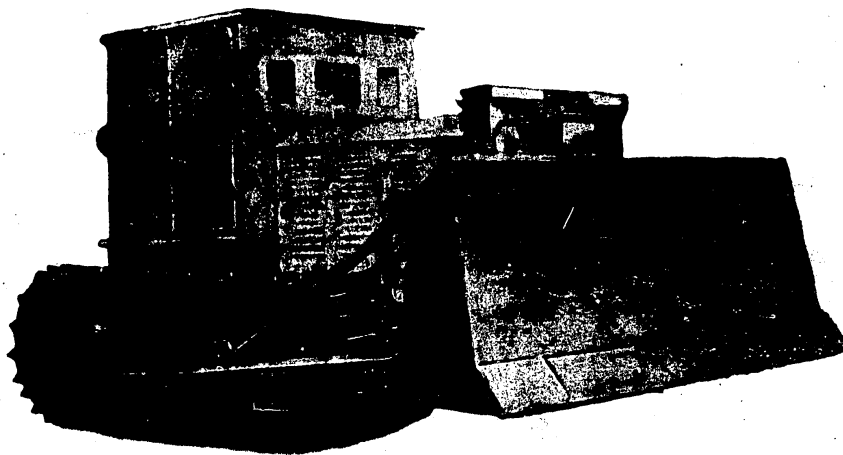


# BULLDOZERS

tractor.

The blade of the D-271 Bulldozer is raised by means of a steel rope from a winch operating from the power take-off shaft.

No structural modifications are required on the tractors for mounting the D-159B or D-271 Bulldozers on them, and after removal of the Bulldozers the tractors are immediately available for haulage. The D-159B and D-271 Bulldozers are simple to operate, they are sturdy and convenient for heavy earth work. Due to the large range of speeds and tractive efforts of the DT-54 and C-80 tractors, the D-159B and D-271 Bulldozers possess excellent manoeuvrability and are highly efficient.



## D-271 SPECIFICATION

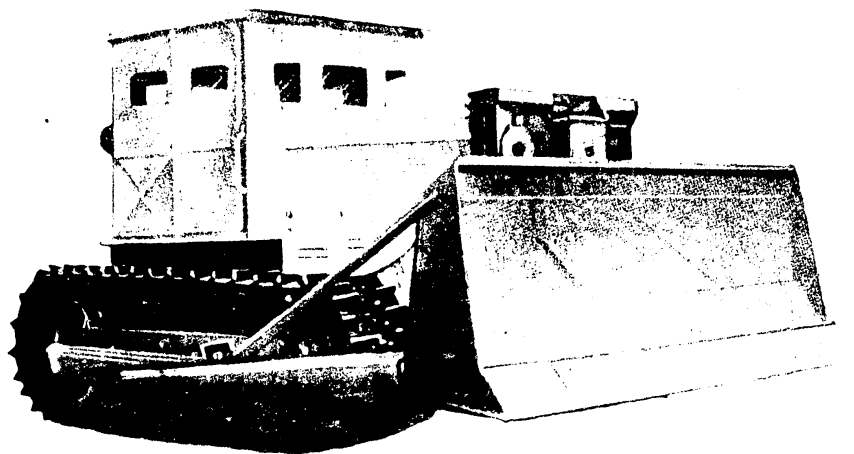
Length of blade with side cutting blade	...	...	3030 mm	Overall dimensions with tractor and winch :			
Height of blade	...	...	1100 mm	length	...	...	5000 mm
Cutting angle	...	...	52-62°	width	...	...	3030 mm
Maximum penetration depth of blade	...	...	180 mm	height	...	...	2660 mm
Maximum lift of blade	...	...	900 mm	Weight :			
Winch, single drum	...	...	D-269	bulldozer without tractor and winch	...	...	1580 kg
Diameter of drum	...	...	216 mm	winch	...	...	320 kg
Length of drum	...	...	96 mm	Tractor with Bulldozer and winch	...	...	13300 kg
Tractive effort on first layer of steel rope	...	...	2800 kg	Speed of tractor :			
Velocity of steel rope on first layer	...	...	1.66 m/sec.	forward	...	...	2.25 to 9.60 km/hour
Diameter of steel rope	...	...	13 mm	reverse	...	...	2.66 to 8.75 km/hour
				Output on average site grading	...	...	3-6 hectares per shift.

# BULLDOZERS

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The blade of the D-271 Bulldozer is raised by means of a steel rope from a winch operating from the power take-off shaft.

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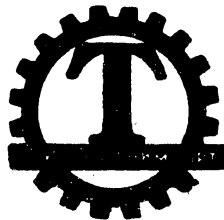


## D-271

### SPECIFICATION

Length of blade with side cutting blade	...	3030 mm	Overall dimensions with tractor and winch :		
Height of blade	...	1100 mm	length	...	5000 mm
Cutting angle	...	52.62°	width	...	3030 mm
Maximum penetration depth of blade	...	180 mm	height	...	2660 mm
Maximum lift of blade	...	900 mm	Weight :		
Winch, single drum	...	D-269	bulldozer without tractor and winch	...	1580 kg
Diameter of drum	...	216 mm	winch	...	320 kg
Length of drum	...	96 mm	Tractor with Bulldozer and winch	...	13300 kg
Tractive effort on first layer of steel rope	...	2800 kg	Speed of tractor :		
Velocity of steel rope on first layer	...	1.66 m/sec	forward	...	2.25 to 9.60 km hour
Diameter of steel rope	...	3 mm	reverse	...	2.66 to 8.75 km hour
			Output on average site grading	...	3-6 hectares per shift.

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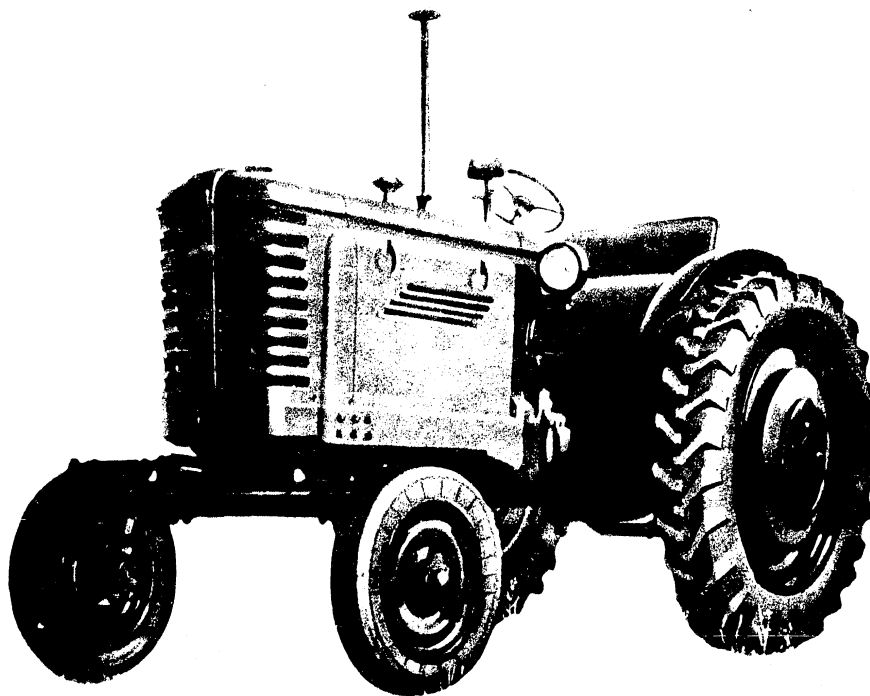
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**TRADE REPRESENTATION OF THE**  
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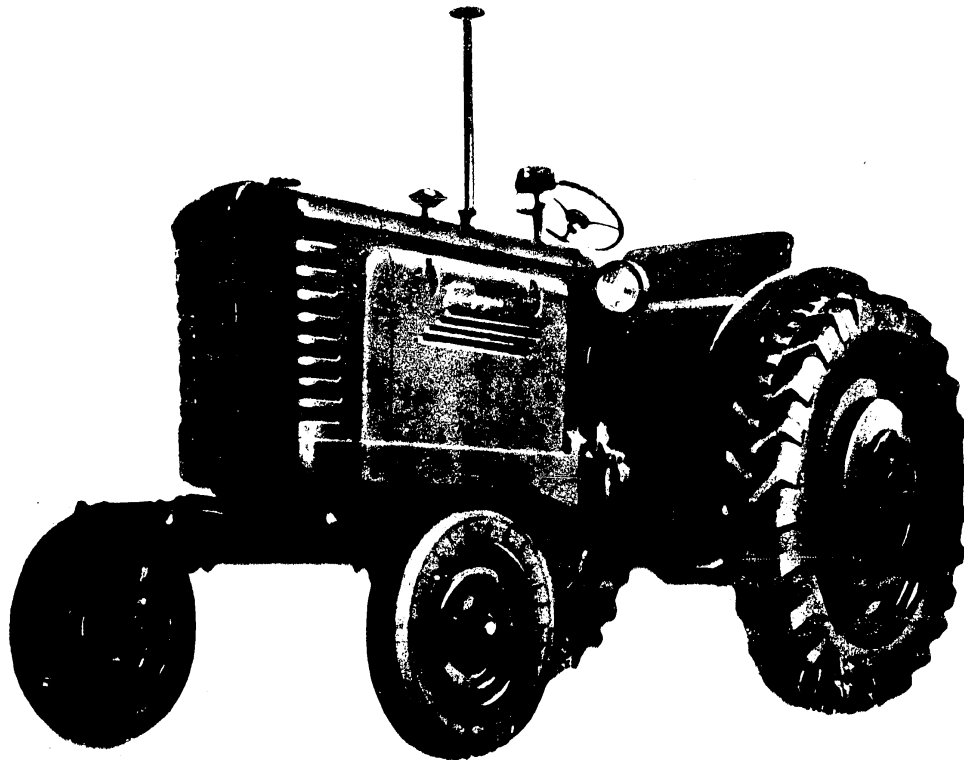


TRACTORS "MT3-1" & "MT3-2"



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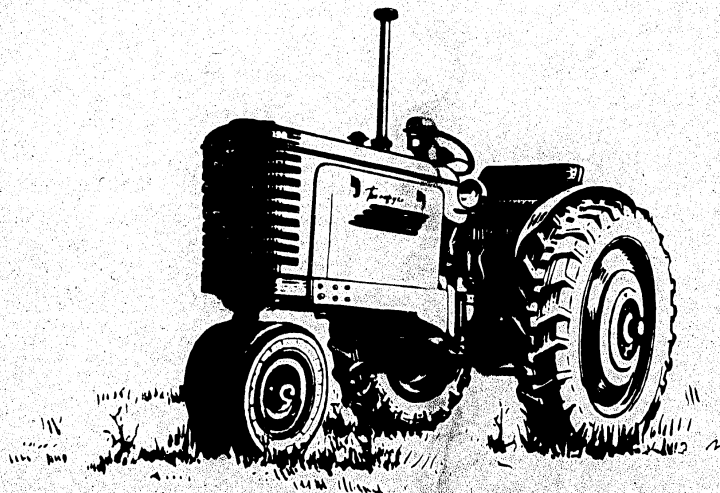
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TRACTORS "MT3-1" & "MT3-2"

The MT3 universal wheel tractors are fitted with a highly economical high compression 4-cycle compressorless engine and are used for various cultivating operations of grain and technical crops: they are capable of operating with various trailing and hanging agricultural machines. They are available in two types: MT3-1 and MT3-2. On the former the distance between the front wheels is reduced.

The tractors are fitted with pneumatic tyres ensuring efficient adhesion and low losses on self-propelling. The tread is adjustable



## SPECIFI

### General data:

Agricultural universal type tractor.

Weight of tractor:  $\begin{cases} \text{MT3-1} - 3150 \text{ kg} \\ \text{MT3-2} - 3250 \text{ kg} \end{cases}$

Tread, MT3-1 tractor: front wheels 190 mm, rear wheels, adjustable from 1200 to 1800 mm.

MT3-2 tractor: front and rear wheels, adjustable from 1200 to 1800 mm.

Clearance, MT3-1 tractor 640 mm  
MT3-2 tractor 440 mm.

### Dimensions of tractor:

Height - 2400 mm, width - 1885 mm,  
length, MT3-1 tractor 3720 mm  
MT3-2 tractor 3660 mm.

### Engine:

Compressorless 4-cycle Diesel.

Rated output 37 H. P.

Rated crankshaft speed 1400 R. P. M.

Fuel: Diesel Oil

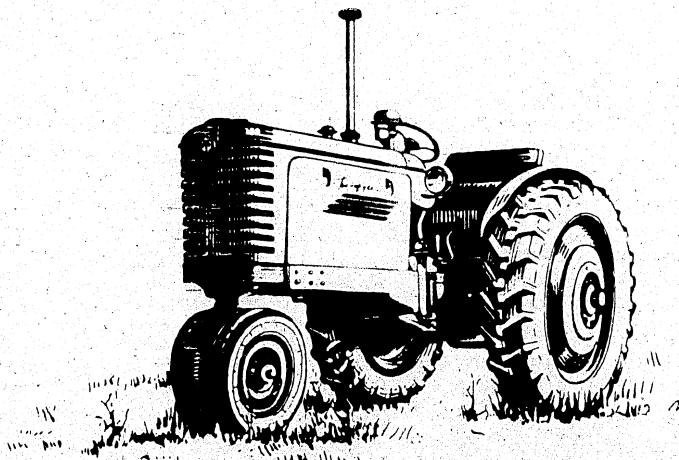
Fuel consumption at rated output - 220 g per H. P. hour. Starting by means of petrol (gasoline) engine and compression release.

### Transmission:

Clutch - dry single plate, normally

The MT3 universal wheel tractors are fitted with a highly economical high compression 4-cycle compressorless engine and are used for various cultivating operations of grain and technical crops; they are capable of operating with various trailing and hanging agricultural machines. They are available in two types: MT3-1 and MT3-2. On the former the distance between the front wheels is reduced.

The tractors are fitted with pneumatic tyres ensuring efficient adhesion and low losses on self-propelling. The tread is adjustable.



## SPECIFI

### General data:

Agricultural universal type tractor.

Weight of tractor { MT3 - 1 - 3150 kg  
MT3 - 2 - 3250 kg

Tread, MT3 - 1 tractor: front wheels 190 mm, rear wheels, adjustable from 1200 to 1800 mm.

MT3 - 2 tractor: front and rear wheels, adjustable from 1200 to 1800 mm.

Clearance, MT3 - 1 tractor 640 mm  
MT3 - 2 tractor 440 mm.

### Dimensions of tractor:

Height - 2400 mm, width - 1885 mm,  
length, MT3 - 1 tractor 3720 mm  
MT3 - 2 tractor 3660 mm.

### Engine:

Compressorless 4-cycle Diesel.

Rated output 37 H. P.

Rated crankshaft speed 1400 R. P. M.

Fuel: Diesel Oil

Fuel consumption at rated output - 220 g. per H. P. hour, Starting by means of petrol (gasoline) engine and compression release.

### Transmission:

Clutch - dry single plate, normally

## CATIONS

engaged. 5 - speed forward and 1 reverse 3 - way transmission.  
Steering transmission - spur wheels.  
Control by turning front wheels and by brakes.

### Tractor speeds (calculated):

1st speed: 4.56, 2nd speed: 5.61, 3rd speed: 6.44, 4th speed: 7.38, 5th speed: 12.95 km/hour;  
reverse: 3.42 km/hour.

Tractive effort from 450 to 1400 kg.  
Drawbar Horsepower on 2nd speed:  
24 H. P.

### Wheels:

with low pressure pneumatic tyres.  
Tyre sizes: front - 5.50-16 rear - 11.00-38 or 8.25-40  
Four wheels, of which 2 rear wheels driving.

### Hitch equipment:

swinging type.  
The tractor is fitted with a device for operation with hanging implements and with hydraulic control for same.

The 5-speed transmission allows efficient loading of the tractor at various farming operations, also its use for hauling.  
The tractors are fitted with power take-offs, driving pulleys for stationary operation, hitch equipment for trailing and hanging implements, also with hydraulic mechanisms for the control of hanging implements.





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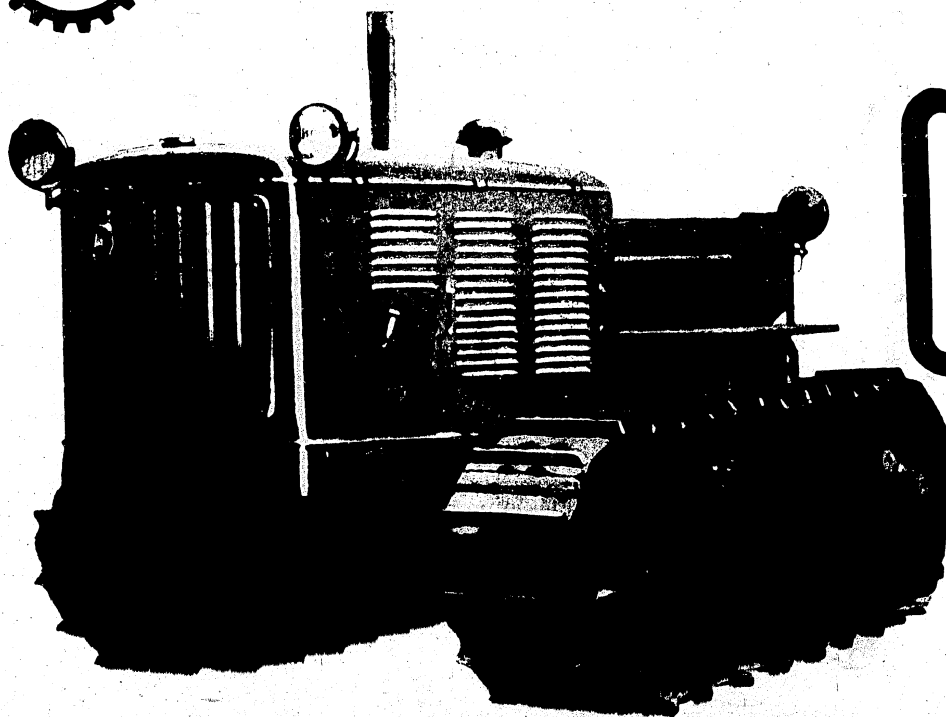
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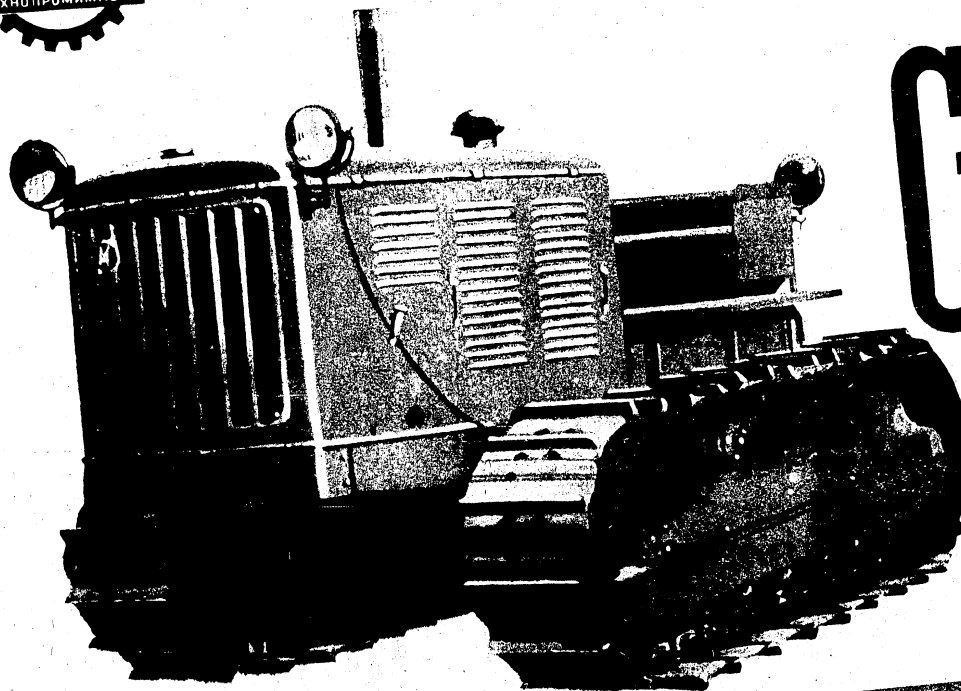
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**T-80**



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**TECHNOPROMIMPORT**



**C-80**

## **C A T I O N S**

### **TRANSMISSION**

Clutch — Dry disc single plate type. Transmission — 5 forward positions and 1 reverse position with 5 forward speeds and 4 reverse speeds. Road Speeds — Forward: First Gear — 2.25, Second Gear — 3.6, Third Gear — 5.14, Fourth Gear — 7.4, Fifth Gear — 9.65 km/hr. Reverse: First Gear — 2.66, Second Gear — 4.25, Third Gear — 6.10, Fourth Gear — 8.75 km/hr.

### **CATERPILLAR**

Consists of 36 Track Links Hinged by Means of Pins and Bushings, and of Special Rolled Steel Shoes fixed to the Links.  
Track Width — 500 mm.

### **ELECTRIC LIGHTING**

Single Wire System, 250 Watt 12 Volts Generator running Counterclockwise with Reduction Gear. Two Mead Lamps and Two Tail Lamps fitted with 21 Watt Bulbs. Ceiling Lamp in Cabin.

### **FUEL**

For Main Engine—Diesel Fuel Oil (Summer and Winter Grade). For Starting Engine — 1st and 2nd grade Petrol (Gasoline). Tank Capacities for Fuel Oil — 230 litres, for Petrol — 7 litres.

**SIGN OF OUR TRACTORS WITHOUT NOTICE.**

small ditches and climb steep slopes.  
Due to these qualities, the S-80 Tractor can be employed effectively in various industries. It can be used for farm work. It can also be used for hauling, lumbering, road construction and many other kinds of work.  
Tractors made in the U.S.S.R. are known for their high performance.

## IFICATIONS

### TRANSMISSION

Clutch - Dry disc single plate type. Transmission - 5 forward positions and 1 reverse position with 5 forward speeds and 4 reverse speeds. Road Speeds Forward: First Gear - 2.25, Second Gear - 3.6, Third Gear - 5.14, Fourth Gear - 7.4, Fifth Gear - 9.65 km/hr. Reverse: First Gear - 2.66, Second Gear - 4.25, Third Gear - 6.10, Fourth Gear - 8.75 km/hr.

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SIGN OF OUR TRACTORS WITHOUT NOTICE.

# TRACTOR

# C-80

The **STALINETZ-80** Tractor belongs to the class of powerful Caterpillar tractors of latest construction.

The **S-80** Tractor possesses high manoeuvrability and efficiency owing to its wide range of speeds and of traction efforts. The considerable weight of this tractor ensures good adhesion on the soil, the unit pressure remaining low owing to the large track surfaces. It can travel well on snow, cross

## SPECIFICATIONS

### GENERAL DATA

Type—Caterpillar Tractor. Weight of Tractor (dry) 11,400 kg. Overall Dimensions : Length — 4,228 mm, Width — 2,456 mm, Height — 2,767 mm. Distance between Track Centres — 1,880 mm, Clearance — 382 mm.

### ENGINE

Four-Cycle Four-Cylinder Diesel Engine. Power : Normal — 80 H. P. Maximum — 93 H. P. Crankshaft Speed — 1,000 R. P. M. Arrangement of Cylinders — vertical. Bore — 145 mm. Stroke — 205 mm. Compression Ratio — 15.5. Firing Order — 1—3—4—2.

Cooling System — Forced Circulation Water Cooling with Thermostat Control. Lubrication System — Combined, Forced Circulation and Splash Lubrication. The Diesel Engine is provided with an Air Heater.

### STARTING ENGINE

Double-Cylinder Four-Cycle Carburettor type. Power — 19 H. P. at 2,600 R.P.M. Bore — 92 mm. Stroke — 102 mm.

The Starting Engine is mounted on the left-hand side of the Diesel Engine Block.

WE RESERVE THE RIGHT TO MODIFY THE DESIGN

small ditches and climb steep slopes.

Due to these qualities, the S-80 Tractor can be employed effectively in various industries. It can be used for farm work. It can also be used for hauling, lumbering, road construction and many other kinds of work.

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## IFICATIONS

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Clutch — Dry disc single plate type. Transmission — 5 forward positions and 1 reverse position with 5 forward speeds and 4 reverse speeds. Road Speeds Forward: First Gear — 2.25, Second Gear — 3.6, Third Gear — 5.14, Fourth Gear — 7.4, Fifth Gear — 9.65 km/hr. Reverse: First Gear — 2.66, Second Gear — 4.25, Third Gear — 6.10, Fourth Gear — 8.75 km/hr.

### CATERPILLAR

Consists of 36 Track Links Hinged by Means of Pins and Bushings, and of Special Rolled Steel Shoes fixed to the Links.  
Track Width — 500 mm

### ELECTRIC LIGHTING

Single Wire System — 250 Watt 12 Volts Generator running Counterclockwise with Reduction Gear. Two Head Lamps and Two Tail Lamps fitted with 21 Watt Bulbs. Ceiling Lamp in Cabin.

### FUEL

For Main Engine — Diesel Fuel Oil (Summer and Winter Grade). For Starting Engine — 1st and 2nd grade Petrol (Gasoline). Tank Capacities for Fuel Oil — 230 litres, for Petrol — 7 litres.

SIGN OF OUR TRACTORS WITHOUT NOTICE.

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Cooling System — Forced Circulation Water Cooling with Thermostat Control. Lubrication System — Combined, Forced Circulation and Splash Lubrication. The Diesel Engine is provided with an Air Heater.

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The Starting Engine is mounted on the left-hand side of the Diesel Engine Block.

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TRACTOR

C-80

D-1

The CAT C-80 Tractor is a powerful, compact tractor of latest design. It possesses the wide range of adaptability and the considerable weight of this tractor make it a most valuable machine for the farmer or the industrialist.

## SPECIFICATIONS

### GENERAL DATA

Type—Caterpillar Tractor. Weight of Tractor (dry) 11,400 kg. Overall Dimensions: Length — 4,228 mm, Width — 2,456 mm, Height — 2,767 mm. Distance between Track Centres — 1,880 mm, Clearance — 382 mm.

### ENGINE

Four-Cycle Four-Cylinder Diesel Engine. Power: Normal — 80 H. P. Maximum — 93 H. P. Crankshaft Speed — 1,000 R. P. M. Arrangement of Cylinders — vertical. Bore — 145 mm. Stroke — 205 mm. Compression Ratio — 15.5. Firing Order — 1—3—4—2.

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Electrical measuring instruments.

Instruments and apparatus for hydrometeorological stations.

Temperature controlling and measuring instruments, pressure  
measuring instruments, gas flow meters, etc.



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# XT3-7



— POOR COPY —

The Universal 4-wheel XT3 — 7 tractor equipped with an economical petrol (gasoline) engine is used for operating in gardens, orchards, berry and shrub gardens, vineyards, technical crop plantations, and for other agricultural work with various trailing and hanging implements. The pneumatic tyres and high speed permit its effective use also for hauling.

By means of a simple rearrangement the tractor can be fitted for garden work or for orchard work, as well as for work in reverse direction by rearrangement of the driver's seat. In the garden arrangement there is a clearance under the tractor ensuring its passage over all garden and technical crops at the period of their interrow cultivation.



## SPECIFICATIONS

### General data:

Agricultural universal tractor, allowing arrangement for orchard or garden work.

Weight of tractor — 1300 kg

Tread — adjustable from 1000 to 1500 mm.

Clearance for orchard arrangement — 313 mm, clearance for garden arrangement — 520 mm.

### Dimensions of tractor:

Orchard arrangement: length 2440 mm, width (1000 mm tread) 1264 mm, height 1106 mm.

Garden arrangement: length 2550 mm, width (1000 mm tread) 1264 mm, height 1319 mm.

### Engine:

— 4-cycle carburettor type.

Rated output — 12 H.P.

Rated crankshaft speed — 1800 rpm.

Fuel — petrol (gasoline)

Fuel consumption at rated output — 27.6 l per H.P. hour.

— POOR COPY —

## ATIONS

Clutch — dry single plate, not normally  
disengaged.  
Gear — forward and 4-speed reverse  
transmission.  
Gear shift transmission by means of  
spur gear wheels.  
Reversing transmission — spur wheels.  
Control by turning front wheels and by  
lever.

### Tractor speeds (calculated):

additional speed (at 900 R.P.M. engine  
speed) for operation with planting ma-  
chines — 0.7 km/hour.

forward and reverse: 1st speed 4.09,  
2nd speed 5.29, 3rd speed 6.09, 4th speed  
12.73 km/hour.

Maximum weight — from 100 to 600 kg.  
Maximum horsepower on 2nd speed —  
12 H.P.

with low pressure pneumatic tyres  
Tyre sizes: front — 4.00 — 16; rear —  
6.00 — 12

Four wheels, 2 of which are driving.  
The tractor is fitted with a device for  
operation with hanging implements and  
with a hydraulic control for same.

# 7B-7

The tractor tread can be varied within wide limits to enable to operate at various row spacings. In the orchard arrangement the tractor has a reduced height to allow free passage under the tree foliage.

The reversing transmission enable the tractor to travel at the same speed in either direction and to operate with hauled or with pushed implements. The tractor has an additional low speed for operation with planting machines.

The tractor is fitted with a power take-off, a driving pulley for stationary work, and a hydraulic mechanism for the control of hanging agricultural implements.



Vnehtorgizdat. Order No. 1177

— POOR COPY —

## CATIONS

### Transmission:

Clutch — dry single plate, not normally engaged.

5-speed forward and 4-speed reverse 4-way transmission.

Rear axle transmission by means of spur gear wheels.

Steering transmission — spur wheels. Control by turning front wheels and by brakes.

### Tractor speeds (calculated):

additional speed (at 900 R.P.M. engine speed) for operation with planting machines — 4.09 km/hour;

forward and reverse: 1st speed 4.09, 2nd speed 5.29, 3rd speed 6.09, 4th speed 12.73 km/hour.

Traction effort — from 100 to 600 kg.  
Drawbar Horsepower on 2nd speed — 8.5 H.P.

### Wheels:

with low pressure pneumatic tyres.

Tyre sizes: front — 4.00—16, rear — 8.00—32.

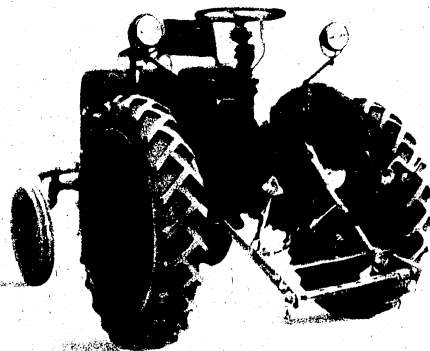
Four wheels, 2 of which are driving.

The tractor is fitted with a device for operation with hanging implements and with hydraulic control for same.

The tractor tread can be varied within wide limits to enable to operate at various row spacings. In the orchard arrangement the tractor has a reduced height to allow free passage under the tree foliage.

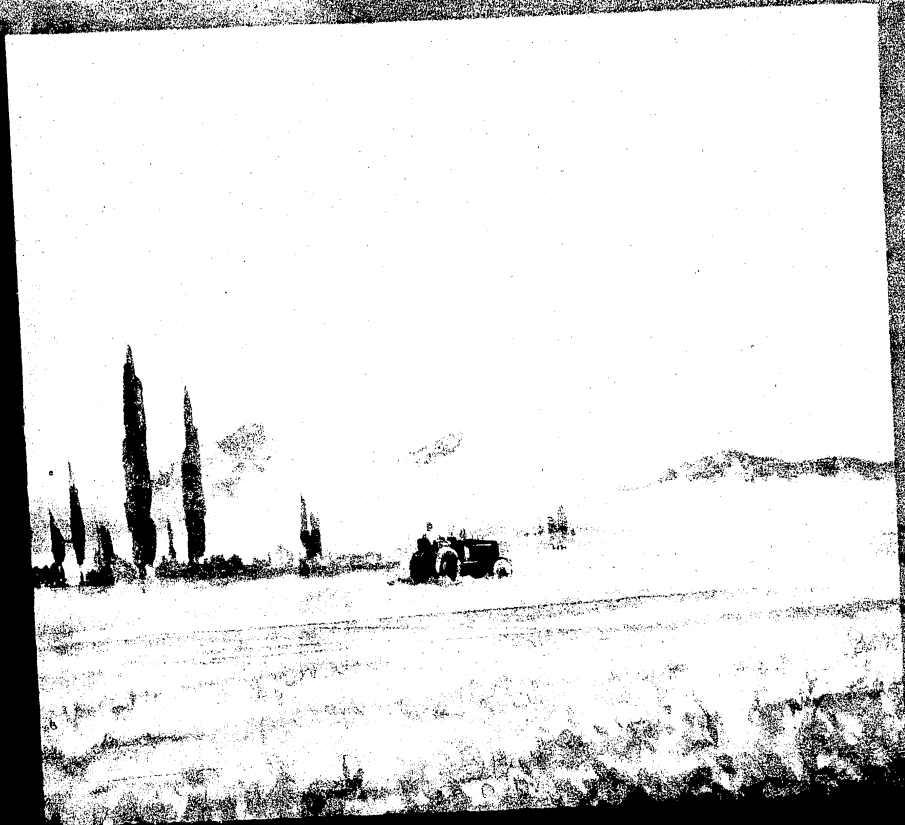
The reversing transmission enable the tractor to travel at the same speed in either direction and to operate with hauled or with pushed implements. The tractor has an additional low speed for operation with planting machines.

The tractor is fitted with a power take-off, a driving pulley for stationary work and a hydraulic mechanism for the control of hanging agricultural implements.



Vnehtorgizdat. Order No. 117\*

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# ЗИС - 585

The ЗИС 585 dump truck is intended for transportation of heavy dry bulk materials.

The ЗИС-585 dump-truck can be successfully used for industrial purposes, for road building, housing, quarry and rock work.



The sturdy convenient steel body is fitted with an hydraulic dumping gear of perfect design.

The simple and convenient control of the dumping gear arranged in the cab enables the driver to unload without leaving the cab.

VSESOJUZHNOJE OBJEDINENIJE

# TECHNOPROMIMPORT

MOSCOW

## S P E C I F I C A T I O N

ЗИС-585

(Type 4×2) DUMP TRUCK

**General data.** Pay load 3.5 tons. Overall dimensions: length 5940 mm, width 2290 mm, height (not loaded) 2180 mm. Wheel base 4000 mm. Track: front wheels 1700 mm; rear wheels 1740 mm. Ground clearance under rear axle 265 mm. Minimum turning radius at outer wheel track: right 7.5 m, left 8.0 m. Weight of truck not loaded 4210 kg. Maximum road speed fully loaded, engine governed, 65 km hour. Capacity of fuel tank 150 litres.

**Engine.** Six-cylinder four cycle petrol engine. Bore 101.6 mm. Stroke 114.3 mm. Piston displacement 5.55 litres. Compression ratio 6:1. Maximum power 95 HP. at 2700 R. P. M. Fuel consumption 255 g (B.H.P.) hour.

**Transmission.** Clutch: double plate dry type.

Three way transmission with 5 forward speeds and 1 reverse. Gear ratios:

First gear 6.24:1; Second gear 3.32:1; Third gear 1.90:1; Fourth gear 1.00:1; Fifth gear 0.81:1; Reverse 6.70:1. Propeller shaft: open tubular type; joint crosses fitted with needle bearings. Main transmission: two-stage, gear ratio 7.63:1. Fully floating axle shafts.

**Truck suspension.** On four longitudinal semi-elliptical springs. Rear springs are fitted with additional springs.

**Wheels and tyres.** Disc type wheels with removable flange locking rings. Ground grip tyres, size 9.00×20" or 260×20".

**Brakes.** Foot brakes shoe type on all wheels: fitted with pneumatic control. Hand brake disc type arranged on transmission shaft.

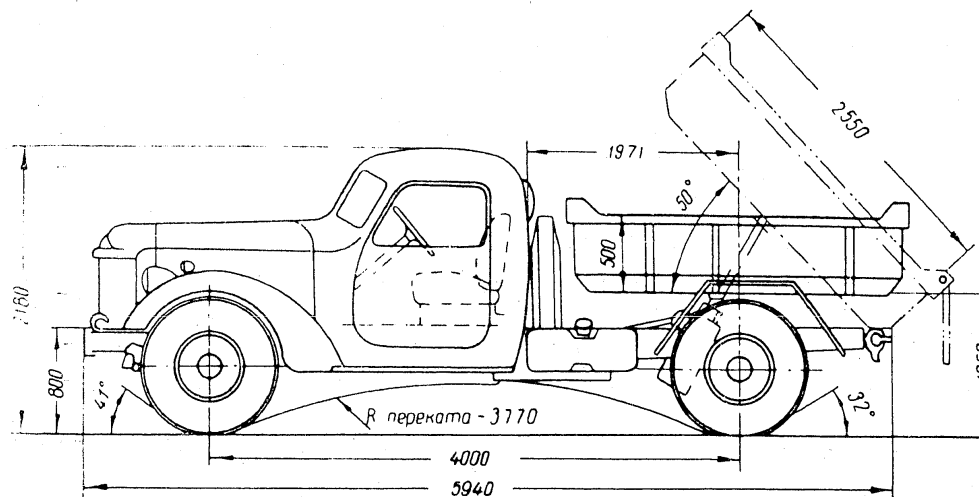
**Steering gear.** Mounted on left hand side. Ratio (mean) 23.5:1.

**Electrical equipment.** 12 volt, 150 watt generator operating in conjunction with cut-out relay voltage regulator and current limiter. Two 12 volt batteries, 140 ampere/hour capacity. Starter having an output of 1.8 H.P.

**Body.** Steel body with hydraulic dumping gear for rear unloading. Maximum angle of body when raised 50°. Time required for raising body 12 to 14 seconds. Body space 2.4 cub. metres. Inside dimensions of body: length 2550 mm, width 2060 mm, height 500 mm.

**Instruments and standard equipment.** Temperature indicator for engine cooling water, oil pressure gauge, speedometer, fuel level gauge on fuel tank, ammeter, brake system pressure gauge, rear view mirror, pneumatic windscreen wiper, driver's kit and accessories, spare wheel with tyre.

Order No. 768





# ЗИС - 585

The ЗИС-585 dump truck is intended for transportation of heavy dry bulk materials.

The ЗИС-585 dump truck can be successfully used for industrial purposes, for road building, housing, quarry and rock work.



The sturdy convenient steel body is fitted with an hydraulic dumping gear of perfect design.

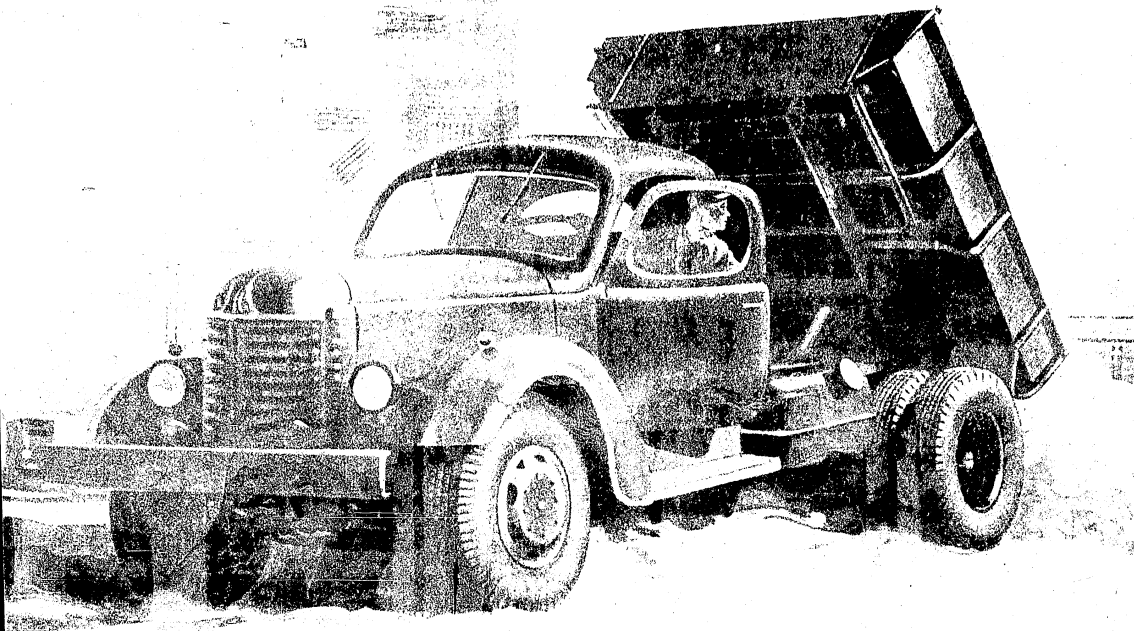
The simple and convenient control of the dumping gear arranged in the cab enables the driver to unload without leaving the cab

VSESOJUZNOJE OBJEDINENIJE

# TECHNOPROMIMPORT

MOSCOW

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**ЗИС - 585**

The ZIS-585 dump truck is  
designed for transporting  
heavy and bulky materials.

The ZIS-585 dump truck can be  
successfully used for industrial  
purposes, for road building, for  
agricultural work.



The sturdy, convenient steel  
body is fitted with a hydraulic  
dumping gear of perfect design.

The simple and convenient con-  
trol of the dumping gear arran-  
ged in the cab enables the driver  
to unload without leaving the cab.

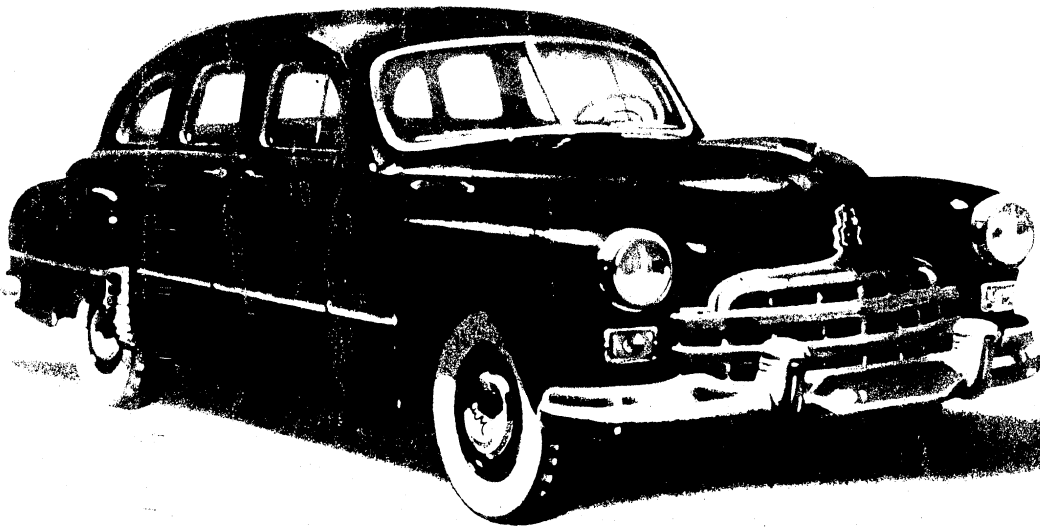
VSESOJUZNOJE OBJEDINENIJE

**TECHNOPROMIMPORT**

MOSCOW



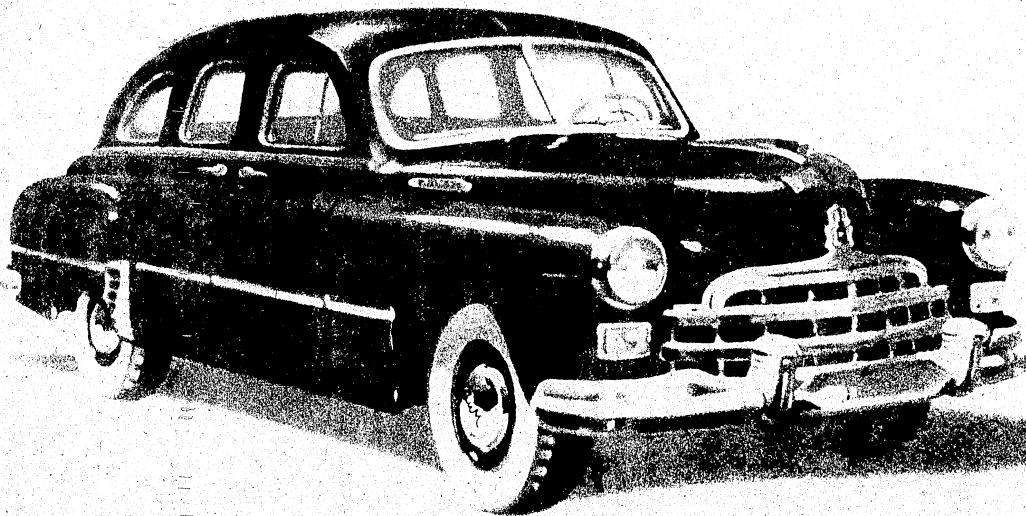
**ЗИМ**



ВСЕСОЮЗНОЕ ОБЪЕДИНЕНИЕ  
**ТЕХНОПРОМИМПОРТ**  
СССР ★ МОСКВА



**ВНЕШТРЕГ**



ВСЕСОЮЗНОЕ ОБЪЕДИНЕНИЕ  
**ТЕХНОПРОМИМПОРТ**  
СССР \* МОСКВА

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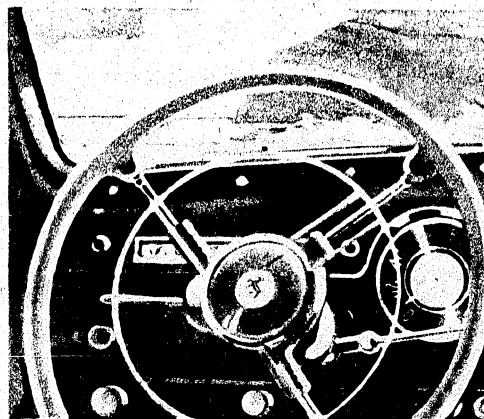
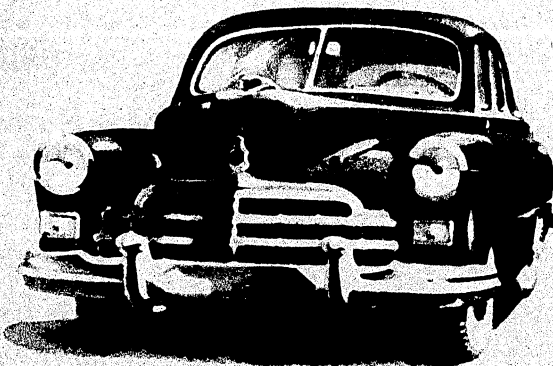
The ZIM is a six seater comfortable middle class car capable of developign a speed of up to 190 km/hour.

The ZIM is available with a supporting four-door all-metal body, with three rows of seats.

The middle row seats can be tipped forward into corresponding recesses arranged in the floor, thus giving more room in the rear passenger compartment.

The ZIM has comfortable suspension, reliable and effective hydraulic brakes and possesses high stability even on ice covered roads.

The controls and instruments on the panel are conveniently arranged. The 90 H. P. engine ensures high dynamic qualities of the car when running on roads of various profiles.



## SPECIFICATION

**Engine.** Six cylinder four cycle petrol carburettor engine. Bore 89 mm. Stroke 110 mm. Piston displacement 3.49 litres. Compression ratio 6.7:1. Maximum engine power 27.5 H.P. at 3600 R.P.M. The cylinders are fitted with sleeves of corrosion proof high quality wear resisting cast iron. Aluminium alloy block head. The forged steel crankshaft is high-frequency current hardened, balanced and is statically and dynamically counterbalanced. The crankshaft is supported on four main bearings with intrinsic integrable bimetallic steel shells and polished bushes. Aluminium alloy plated pistons with two compression rings. The upper compression ring being chrome plated and the oil scraper ring with valves with adjusting steel mushroom tappets having alloy cast iron welded on their surface. Forged steel camshaft. The engine has three main castastic suspension.

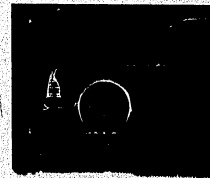
**Engine lubrication system.** Combined type pressure and splash lubrication pump, also splash lubrication. Crankshaft and camshaft bearings also thrust washers are pressure lubricated. The lubrication system comprises the following units: floating oil pump, oil pump with pressure-reducing valve, fine cleanign filter with replaceable filtering element, rough cleaning plate type filter and tube-plate type separator. Capacity of lubrication system 7.5 litres.

**Engine cooling system.** Forced circulation water cooling by centrifugal pump. The cooling system is hermetically sealed and comprises the following units: water pump, manifold supplying cooling water to the exhaust valve bushes, thermostat, triple tube plate radiator and a four-blade ventilator. Adjustable shutters are arranged in front of the radiator. Filling capacity of cooling system 13 litres.

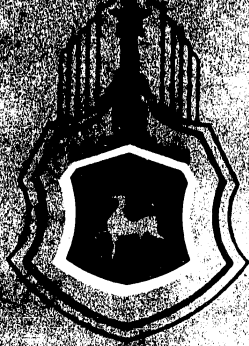
**Fuel system.** Comprises a 80-litre capacity petrol tank with lever for filling and priming and top sediment chamber with strainer, a down draught carburettor provided with a mechanically operated acceleration pump and air filter, also with inertia-oil washed type air cleaner fitted with intake silencer.

**Electrical equipment.** Battery ignition. Firing order: 1-5-3-6-2-4. Shunt generator 18-ampere. Relay regulator comprising voltage regulator, current limiter and cut out relay. The car is equipped with a storage battery and ignition coil with resistor which is automatically short-circuited when the starter is operator. The distributor is provided with a centrifugal advance regulator and vacuum assisted control, also with octane corrector. Spark plugs 14 mm diameter thread. Electric wiring: single wire system with battery positive (+) grounded. Normal voltage: 19 volts.

**Clutch.** Single plate dry type.







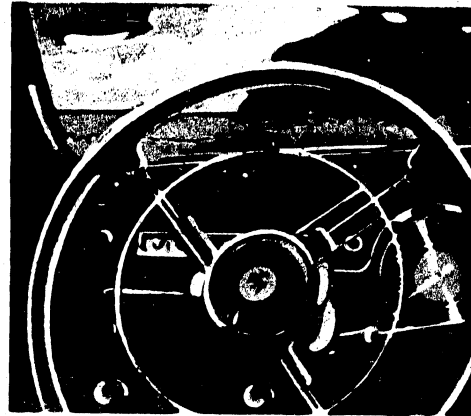
The ZIM is a six-cylinder four-door middle class car capable of developing a speed of up to 120 km/hour.

The ZIM is available with an optional four-door all-steel body, with three rows of seats.

The middle row seats can be tipped forward into corresponding recesses formed in the floor, thus giving more room in the rear passenger compartment.

The ZIM has a strong suspension, reliable and effective brakes and a steering system which gives high stability even on ice and wet roads.

The ZIM is available in a wide range of finishes and is suitable for use in all climates. It is also available in a range of various models.



#### SPECIFICATION

**Engine.** Six-cylinder four-cycle petrol carburettor engine. Bore 82 mm. Stroke 110 mm. Piston displacement 3.48 litres. Compression ratio 6.7:1. Maximum engine power 90 H.P. at 3600 R.P.M. The cylinders are fitted with sleeves of corrosion proof high quality wear resisting cast iron. Aluminium cylinder block head. The forged steel crankshaft has high-frequency-current hardened journals and is statically and dynamically counterbalanced. The crankshaft is supported on four main bearings with interchangeable bimetallic thin-walled bobbin lined bushes. Aluminium tin plated pistons with two compression and two oil rings, the upper compression ring being chrome plated and the others tin plated. Side valves with adjusting steel mushroom tappets having alloy cast iron welded on their surface. Forged steel camshaft. The engine has three-point elastic suspension.

**Engine lubrication system.** Combined type: pressure lubrication by gear pump, also splash lubrication. Crankshaft and camshaft bearings, also tappet rods are pressure lubricated. The lubrication system comprises the following units: floating oil sump, oil pump with pressure reducing valve, fine cleanline filter with replaceable filtering element, rough cleaning plate type filter and tube-plate type oil radiator. Capacity of lubrication system 7.5 litres.

**Engine cooling system.** Forced circulation water cooling by centrifugal pump. The cooling system is hermetically sealed and comprises the following units: water pump, manifold supplying cooling water to the exhaust valve bushes, thermostat, tripple tube-plate radiator and a four-blade ventilator. Adjustable shutters are arranged in front of the radiator. Filling capacity of cooling system 13 litres.

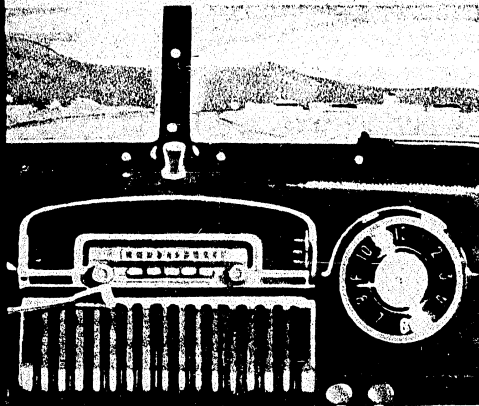
**Fuel system.** Comprises a 80-litre capacity petrol tank, with lever for hand priming and top sediment chamber with strainer, a down-draught carburettor provided with a mechanically operated acceleration pump and economiser, also with inertia-oil washed type air cleaner fitted with intake silencer.

**Electrical equipment.** Battery ignition. Firing order: 1-5-3-6-2-4. Shunt generator 18-amperes. Relay regulator comprising voltage regulator, current limiter and cut-out relay. The car is equipped with a storage battery and ignition coil with resistor which is automatically short-circuited when the starter is operator. The distributor is provided with a centrifugal advance regulator and vacuum assisted control, also with octane corrector. Spark plugs 14-mm diameter thread. Electric wiring: single wire system with battery positive (+) grounded. Normal voltage: 18 volts.

**Clutch.** Single plate dry type.



# — POOR COPY —



**Transmission.** Two-way type, with 3 forward speeds and 1 reverse.

**Gear ratios:** First gear 3.115:1  
Second gear 1.779:1  
Third gear 1:1 (direct)  
Reverse 3.738:1

All gears are helical, a synchronizer is provided for engaging second and third ratio gears. Gear ratio control is arranged on steering column.

**Propeller shafts.** Open tubular balanced type, with three universal joints on needle bearings and intermediate support.

**Rear axle.** Herring type. Main transmission gear ratio 4.55:1.

**Brakes.** Foot brake four wheel hydraulic, hand brake mechanical acting on rear wheel brake shoes.

**Car suspension.** Front independent lever type suspension on cylindrical coiled springs. Hydraulic double acting front dampers. Torsion type transverse stabilizer.

Rear on longitudinal semi-elliptical leaf springs, the leaves are shotblasted for high wear. Hydraulic double acting rear dampers.

**Steering.** Globoid worm with double roller. Gear ratio 18.9:1 (mean). A ring button for operating the horn is provided on the steering wheel. The steering mechanism is mounted on the left hand side.

**Wheels and tyres.** Pressed steel disc type wheels, interchangeable. Spare wheel in luggage locker. Tyre size: 7.15. Air inflation pressure 2.95 kg/cm<sup>2</sup>.

**Chassiswork.** Closed, four-door, all-metal supporting body.

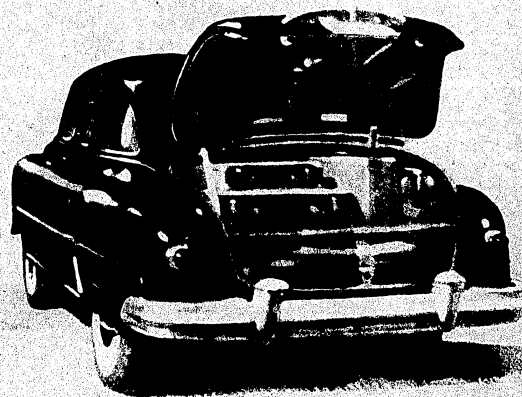
**Standard equipment.** Starter, two head lamps with town and country driving lights, two side lamps with double filament bulbs for parking light, turn indicator, number plate illuminator, two tail lamps, stop-signal light, ammeter, fuel level gauge, oil pressure gauge, water temperature indicator, signal lamps for maximum water temperature in the radiator and for hand brake operation, speedometer, clock with electric winding, radio receiving set, windscreen wiper with speed of operation adjustment, turn indicator with automatic resetting, two electric horns (low and high-tone), two cigarette lighters, four ash trays, compartment for small articles in instrument panel, driver's kit in two convenient bags, jack and portable lamp.

**Principal characteristics.** Number of seats: 6 (including driver's seat). Overall dimensions: length 5530 mm, width 1900 mm, height (not loaded) 1660 mm. Wheel base: 3900 mm. Track front wheels 1460 mm, rear wheels 1500 mm. Ground clearance (loaded), 200 mm. Fuel consumption (control): on 100 km track 15.5 litres. Maximum road speed 190 km/hour.

For higher convenience of operation the car is fitted with an hydraulic clutch, gear ratio lever on the steering column, automatic change-over switch of turn indicator, signal lamps for hand brake operation and for maximum water temperature in the radiator.

The ZIM is fitted with a radio receiving set, a heater for warming fresh air and uniform distribution of the heated air over the whole body of the car, air blowing for windscreen, also with clock, cigarette lighters and ash trays.

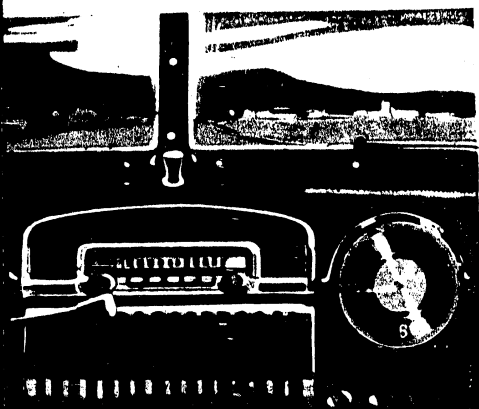
There is a roomy luggage trunk at the rear.



**ZIM** ★

Vneshtorgizdat Order No. 2034

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**Transmission.** Two-way type, with 3 forward speeds and 1 reverse.

Gear ratios: first gear 3.115:1  
 Second gear 1.772:1  
 Third gear 1:1 (direct)  
 Reverse 3.738:1

All gears are helical; a synchronizer is provided for engaging second and third ratio gears. Gear ratio control is arranged on steering column.

**Propeller shafts.** Open tubular balanced type, with three universal joints on needle bearings and intermediate support.

**Rear axle.** Hypoid type. Main transmission gear ratio 4.55:1

**Brakes.** Foot brake: four-wheel hydraulic; hand brake: mechanical acting on rear wheel brake shoes.

**Car suspension.** Front: Independent lever type suspension on cylindrical coiled springs. Hydraulic double acting front dampers. Torsion type transverse stabilizer.

Rear: on longitudinal semi-elliptical leaf springs; the leaves are shotblasted for high wear. Hydraulic double acting rear dampers.

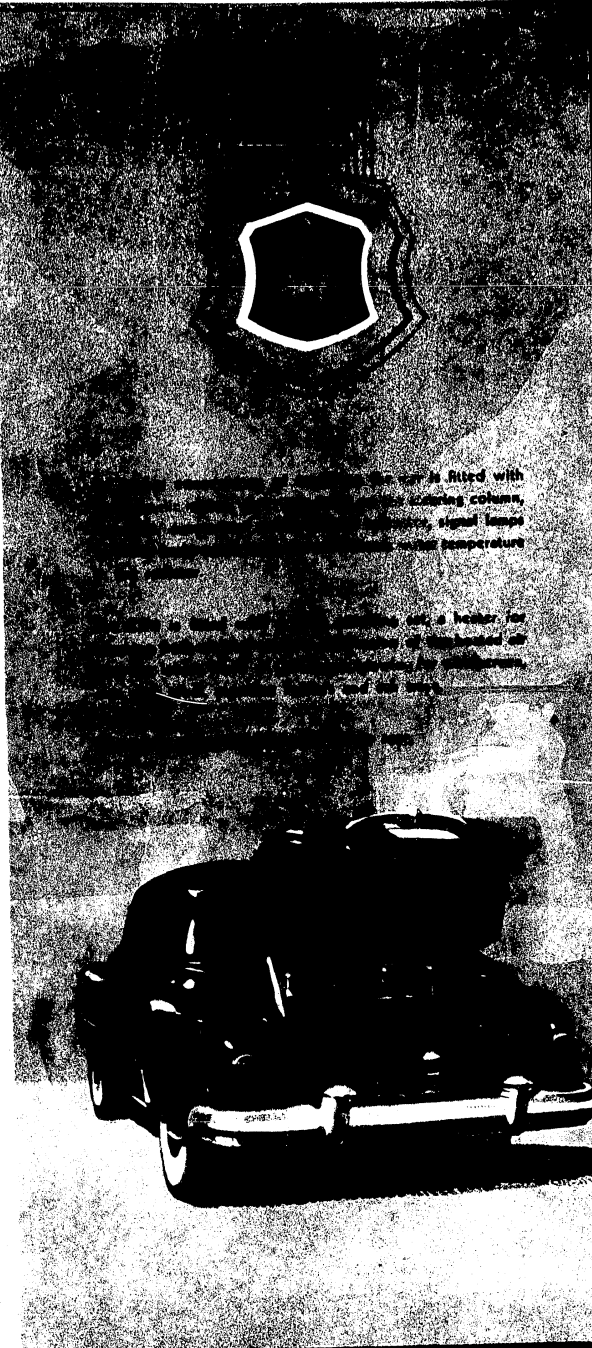
**Steering.** Globoid worm with double roller. Gear ratio 18.2:1 (mean). A ring button for operating the horn is provided on the steering wheel. The steering mechanism is mounted on the left hand side.

**Wheels and tyres.** Pressed steel disc type wheels, interchangeable. Spare wheel in luggage locker. Tyre size: 7x15". Air inflation pressure 9.05 kg/cm<sup>2</sup>.

**Coachwork.** Closed, four-door, all-metal supporting body.

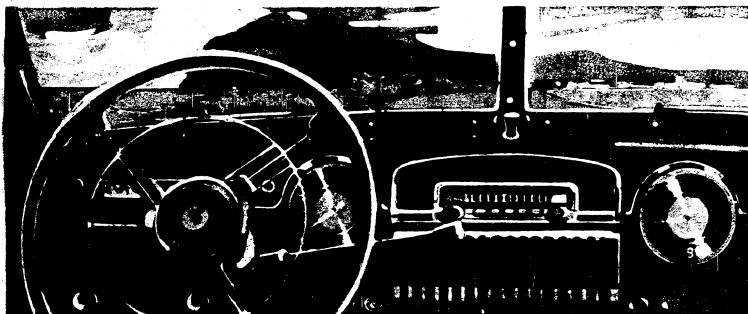
**Standard equipment.** Starter, two head lamps with town and country driving lights, two side lamps with double filament bulbs for parking light, turn indicator, number plate illuminator, two tail lamps, -stop-signal- light, ammeter, fuel level gauge, oil pressure gauge, water temperature indicator, signal lamps for maximum water temperature in the radiator and for hand brake operation, speedometer, clock with electric winding, radio receiving set, windscreen wiper with speed of operation adjustment, turn indicator with automatic resetting, two electric horns (low and high tone), two cigarette lighters, four ash trays, compartment for small articles in instrument panel, driver's kit in two convenient bags, jack and portable lamp.

**Principal characteristics.** Number of seats: 6 (including driver's seat). Overall dimensions: length 5530 mm, width 1900 mm, height (not loaded) 1660 mm. Wheel base: 3900 mm. Track front wheels 1460 mm; rear wheels 1500 mm. Ground clearance (loaded) 200 mm. Fuel consumption (control): on 100 km track 15.5 litres. Maximum road speed 190 km/hour.



**UUM** ★

Vneshtorgizdat, Order No. 2034



### SPECIFICATION

**Engine.** Six-cylinder four-cycle petrol carburettor engine. Bore 82 mm. Stroke 110 mm. Piston displacement 3.48 litres. Compression ratio 6.7:1. Maximum engine power 80 H.P. at 3000 R.P.M. The cylinders are fitted with sleeves of corrosion proof high quality wear resisting cast iron. Aluminium cylinder block head. The forged steel crankshaft has high-frequency-current hardened journals and is statically and dynamically counterbalanced. The crankshaft is supported on four main bearings with interchangeable bimetallic thin-walled babbitt lined bushes. Aluminium die plated pistons with two compression and two oil rings, the upper compression ring being chrome plated and the others die plated. Side valves with adjusting steel mushroom tappets having alloy cast iron welded on their surface. Forged steel camshaft. The engine has three-point elastic suspension.

**Engine lubrication system.** Combined type: pressure lubrication by gear pump, also splash lubrication. Crankshaft and camshaft bearings, also tappet rods are pressure lubricated. The lubrication system comprises the following units: floating oil sump, oil pump with pressure reducing valve, fine cleaning filter with replaceable filtering element, rough cleaning plate type filter and tube-plate type oil radiator. Capacity of lubrication system 7.5 litres.

**Engine cooling system.** Forced circulation water cooling by centrifugal pump. The cooling system is hermetically sealed and comprises the following units: water pump, manifold supplying cooling water to the exhaust valve bushes, thermostat, triple tube-plate radiator and a four-blade vane-fan. Adjustable shutters are arranged in front of the radiator. Filling capacity of cooling system 13 litres.

**Fuel system.** Comprises a 80-litre capacity petrol tank, with lever for hand

**Transmission.** Two-way type, with 3 forward speeds and 1 reverse.

Gear ratios:	First gear	3.115:1
	Second gear	1.772:1
	Third gear	1:1 (direct)
	Reverse	3.738:1

All gears are helical, a synchronizer is provided for engaging second and third ratio gears. Gear ratio control is arranged on steering column.

**Propeller shafts.** Open tubular balanced type, with three universal joints on needle bearings and intermediate support.

**Rear axle.** Hayslip type. Main transmission gear ratio 4.55:1

**Brakes.** Four brake: four-wheel hydraulic, hand brake: mechanical acting on rear wheel brake shoes.

**Car suspension.** Front: independent lever type suspension on cylindrical coiled springs. Hydraulic double acting front dampers. Torsion type transverse stabilizer.

Rear: on longitudinal semi-elliptical leaf springs; the leaves are shotblasted for high wear. Hydraulic double acting rear dampers.

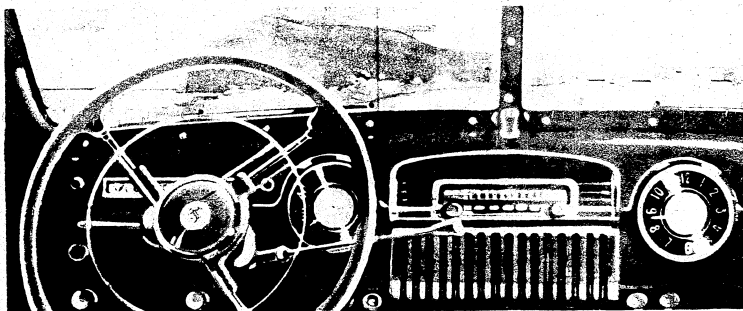
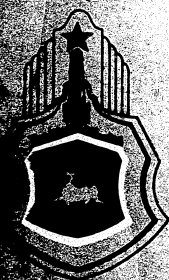
**Steering.** Globoid worm with double roller. Gear ratio 18.9:1 (mean). A ring button for operating the horn is provided on the steering wheel. The steering mechanism is mounted on the left hand side.

**Wheels and tyres.** Pressed steel disc type wheels, interchangeable. Spare wheel in luggage locker. Tyre size: 7x15". Air inflation pressure 9.95 kg/cm<sup>2</sup>.

**Chassiswork.** Closed, four-door, all-metal supporting body.

**Standard equipment.** Starter, two head lamps with town and country driving lights, two side lamps with double filament bulbs for parking light, turn indicator,

POOR COPY



The ZIM is a modern middle class car capable of speeds of up to 120 km/hour. It is equipped with a supporting four-door all-metal chassis of steel.

The front can be tipped forward into corresponding position in the floor, thus giving more room for passengers.

The ZIM is equipped with reliable and effective suspension, reliable and effective brakes and possesses high stability even on ice.

The ZIM is equipped with convenient and comfortable seats, thus giving more room for passengers. The ZIM is equipped with reliable and effective suspension, reliable and effective brakes and possesses high stability even on ice.

#### SPECIFICATION

**Engine.** Six-cylinder four-cycle petrol carburettor engine. Bore 80 mm. Stroke 110 mm. Piston displacement 3.48 litres. Compression ratio 6.7:1. Maximum engine power 21.4 H.P. at 3600 R.P.M. The cylinders are fitted with sleeves of corrosion proof high quality wear resisting cast iron. Aluminium cylinder block head. The forged steel crankshaft has high frequency current hardened journals and is statically and dynamically counterbalanced. The crankshaft is supported on four main bearings with interchangeable bimetallic thin-walled babbit lined bushes. Aluminium tin plated pistons with two compression and two oil rings. The upper compression ring being chrome plated and the others tin plated. Side valves with adjusting steel mushroom tappets having alloy cast iron wear on their surface. Forged steel camshaft. The engine has over 1000 cubic centimetre displacement.

**Engine lubrication system.** Combined type: pressure lubrication by gear pump, also splash lubrication. Crankshaft and camshaft bearings, also tappet rods, are pressure lubricated. The lubrication system comprises the following units: floating oil pump, oil pump with pressure reducing valve, fine centrifugal filter with replaceable filtering element, rough cleaning plate type filter and tube-plate type oil radiator. Capacity of lubrication system 7.5 litres.

**Engine cooling system.** Forced circulation water cooling by centrifugal pump. The cooling system is hermetically sealed and comprises the following units: water pump, manifold supplying cooling water to the exhaust valve bushes, thermostat, triple tube-plate radiator and a four-blade ventilator. Adjustable shutters are arranged in front of the radiator. Filling capacity of cooling system 13 litres.

**Fuel system.** Comprises a 30-litre capacity petrol tank, with lever for hand priming and two sediment chamber with strainer, a down draught carburettor.

**Transmission.** Two axle type, with 3 forward speeds and 1 reverse.

Gear ratio: First gear 3.115:1

Second gear 1.772:1

Third gear 1.172:1

Reverse 3.515:1

All gears are helical, synchronizer is provided for the second and third ratio gears. Gear change is operated on steering column.

**Propeller shaft.** Slip yoke, balanced type, with three universal joints on needle bearings and intermediate support.

**Rear axle.** Semi-elliptical leaf springs.

**Brakes.** Foot brake: hydraulic, disc type. Hand brake: mechanical, acting on rear wheel brake shoes.

**Car suspension.** Front: independent lever type suspension on cylindrical coiled springs. Hydraulic double acting front dampers. Torsion type transverse stabilizer.

Rear: on longitudinal semi-elliptical leaf springs. The leaves are shotblasted for high wear. Hydraulic double acting rear dampers.

**Steering.** Globoid worm with double roller. Gear ratio 18.2:1 (mean). A ring button for operating the horn is provided on the steering wheel. The steering mechanism is mounted on the left hand side.

**Wheels and tyres.** Pressed steel disc type wheels, interchangeable. Spare wheel in luggage locker. Tyre size: 7-15. Air inflation pressure 9.95 kg/cm<sup>2</sup>.

**Chassis.** Closed, four-door, all-metal supporting body.

**Standard equipment.** Starter, two head lamps with town and country driving lights, two side lamps with double filament bulbs for parking light, turn indicator, horn, rear window wiper, door locks, door handles, door hinges, door seals, door

For higher convenience of operation, an hydraulic clutch, gear ratio lever, automatic change-over switch of the hand brake operation and for use in the radiator.

The ZIM is fitted with a radio for warming fresh air and uniform distribution over the whole body of the car, also with clock, cigarette lighters.

There is a roomy luggage locker.

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**TECHNOPROMIMPORT**  
MOSCOW ★ U S S R